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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/632,759	08/01/2003	Hans-Dieter Weigel	M&N-IT-471	5038

24131 7590 04/05/2005

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EXAMINER	
TRA, TUYEN Q	

ART UNIT	PAPER NUMBER
2873	

DATE MAILED: 04/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/632,759	WEIGEL, HANS-DIETER	
	Examiner	Art Unit	
	Tuyen Q. Tra	2873	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *14 December 2004*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-6 and 8-22* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-6 and 8-22* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *01 August 2003* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date ____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

The indicated allowability of claims 7 and 9 are withdrawn in view of the newly discovered reference to Tyco Electronic Publication. Rejections based on the newly cited reference follow.

Claim Rejections - 35 USC § 102

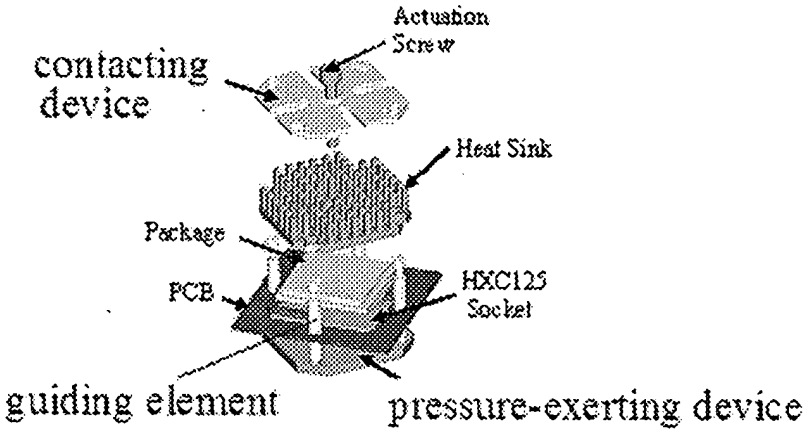
1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 5, 6, 8 and 10-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Tyco Electronic (Publication, 2001).

a) With respect to claim 1, Tyco Electronic Pub. discloses an electro-optical transmission module socket HXC125 has transceiver unit to which drive unit is connected and has electrical contact elements for connection to connection elements of printed circuit board in Figure below comprising an electro-optical communication device; a printed circuit board (PCB) with a control module electrically driving the electro-optical communication device and having bores formed therein and regions around the bores; a base part securing at least one of the electro-optical communication device and the printed circuit board; and at least two guiding elements firmly connected to the base part and passing through the printed circuit board in the regions of the bores without any play; and wherein a pressure-exerting device pressing the base part and the

printed circuit board against one another in a direction perpendicular to the printed circuit board.



b) With respect to claims 5 and 6, Tyco Electronic Publication further disclose wherein contacting device (item 1) is mounted in a floating manner and in a direction perpendicular to the printed circuit board; wherein two guiding elements are provided in a diagonal configuration relative to each other (see above Figure).

c) With respect to claim 8, Tyco Electronic Publication further disclose wherein the base part has a bore; and the pressure-exerting device is formed by a spring-actuated screwing element mounted in the bore of the base part and passes through the base part and the printed circuit board.

d) With respect to claim 10, Tyco Electronic Publication further disclose wherein comprising two spring-actuated screwing elements disposed diagonally on the base part, the screwing elements and the guiding elements defining corners of a rectangle.

e) With respect to claims 11 and 12, Tyco Electronic Publication further disclose wherein the guiding elements are guiding bolts pressed positional exactly into the base part; wherein the base part is a heat sink.

f) With respect to claims 13 and 14, Tyco Electronic Publication further disclose wherein the guiding elements protrude to allow the guiding elements to be inserted into assigned bores of a mounting board; wherein the guiding elements have an internal thread.

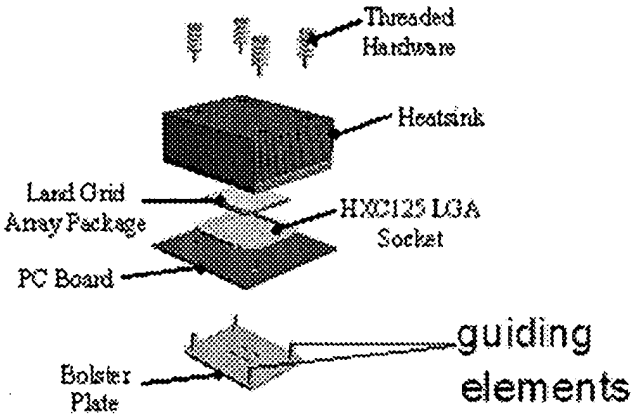
g) With respect to claims 15 and 16, Tyco Electronic Publication further disclose wherein a further module component fixed by the guiding elements relative to the base part; wherein the electrooptical communication device is a transmitter

h) With respect to claims 17 and 18, Tyco Electronic Publication further discloses wherein the electrooptical communication device is a receiver; wherein the electrooptical communication device is a transceiver.

i) With respect to claim 19, Tyco Electronic Publication further disclose wherein a circuit board; and a substantially flat-formed contacting device having bores formed therein and regions about the bores, and being disposed parallel to the printed circuit board and electrically connecting the printed circuit board to the circuit board, the guiding elements passing through the contacting device in the region of the bores without any play.

4. Claim 9 is rejected under 35 U.S.C. 102(b) as being anticipated by Tyco Electronic (Publication, 2001).

Tyco Electronic Pub. discloses an electro-optical transmission module socket HXC125 has transceiver unit to which drive unit is connected and has electrical contact elements for connection to connection elements of printed circuit board in Figure below comprising an electro-optical communication device; a printed circuit board (PCB) with a control module electrically driving the electro-optical communication device and having bores formed therein and regions around the bores; a base part securing at least one of the electro-optical communication device and the printed circuit board; and at least two guiding elements firmly connected to the base part and passing through the printed circuit board in the regions of the bores without any play; and two spring-actuated screwing elements disposed diagonally on the base part, the screwing elements and the guiding elements defining corners of a rectangle.



Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to

be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 2-4 and 20-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tyco Electronic (Publication, 2001) and further in view of Flickert et al. (WO).

a) With respect to claim 2, Tyco Electronic Publication discloses an electro-optical transmission module socket HXC125 has transceiver unit to which drive unit is connected and has electrical contact elements for connection to connection elements of printed circuit board in Figure below comprising an electro-optical communication device; a printed circuit board (PCB) with a control module electrically driving the electro-optical communication device and having bores formed therein and regions around the bores; a base part securing at least one of the electro-optical communication device and the printed circuit board; and at least two guiding elements firmly connected to the base part and passing through the printed circuit board in the regions of the bores without any play; wherein a pressure-exerting device pressing the base part and the printed circuit board against one another in a direction perpendicular to the printed circuit board.

However, Tyco Electronic Publication does not teach a substantially flat-formed contacting device having bores formed therein and regions about the bores, and being disposed parallel to the printed circuit board and configured to electrically connect the printed circuit board to a circuit board, the guiding elements passing through the contacting device in the region of the bores

without any play. Within the same field of endeavor, Flickert et al. teach a substantially flat-formed contacting device (item 1) having bores formed therein and regions about the bores; and being disposed parallel to the printed circuit board and configured to electrically connect the printed circuit board to a circuit board, the guiding elements passing through the contacting device in the region of the bores without any play (Figure 1).

It would have been obvious, therefore, at the time the invention was made to a person having skill in the art to construct the optical device such as disclosed by Tyco Electronic Publication, with a substantially flat-formed contacting device having bores formed therein and regions about the bores, and being disposed parallel to the printed circuit board and configured to electrically connect the printed circuit board to a circuit board, the guiding elements passing through the contacting device in the region of the bores without any play such as discloses by Flickert et al., for purpose of electrically contacting with package.

b) With respect claim 3, Plickert et al. further discloses wherein the circuit board has a transmission module mounted thereon (abstract).

c) With respect claim 4, Plickert et al. further wherein the contacting device is a contact board (item 1, Figure 1) electrically connected to the printed circuit board and having a contact element on a first side, a second side being formed by pads of the circuit board.

d) With respect to claim 20, Plickert et al. further discloses wherein the pressure-exerting device presses the base part and the printed circuit board, and

the contacting device, against one another in a direction perpendicular to the printed circuit board.

e) With respect to claim 21, Plickert et al. further discloses wherein the base part has a bore; and the pressure-exerting device is formed by a spring-actuated screwing element mounted in the bore of the base part and passes through the base part, the printed circuit board and the contacting device.

f) With respect to claim 22, Plickert et al. further discloses wherein two spring-actuated screwing elements disposed diagonally on the base part, the screwing elements and the guiding elements defining corners of a rectangle.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuyen Tra whose telephone number is (571) 272-2343. The examiner can normally be reached on Monday to Thursday from 8:30am to 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps, can be reached on (571) 272 - 2328. The fax number for this Group is (703) 872-9306.

tt

March 10, 2005

Hung Xuan Dang
Primary Examiner